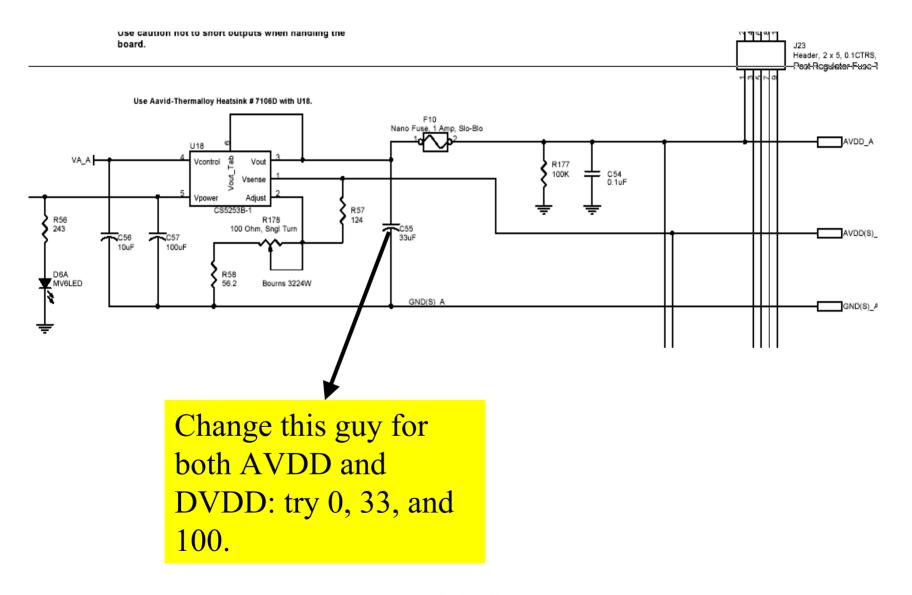
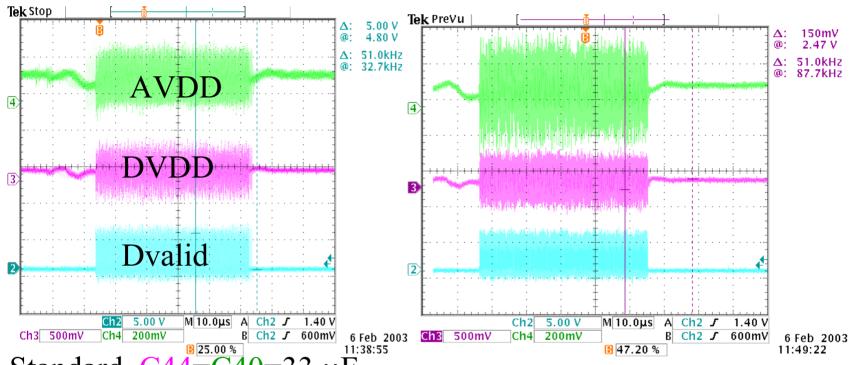
Purple Card Regulator Studies

• R. Sidwell, H. Burns, K. Harder, D. Huddleston

- Test conditions:
- Measure AVDD, DVDD at J40 on channel B of purple card, with 10 chip hybrid.
- Vary C40, C44 which are (tantalum) filter capacitors across output of voltage regulators.
- Measure average SVX4 total, and differential noise.
- No interesting effects noted.

Volt Regulator schematic



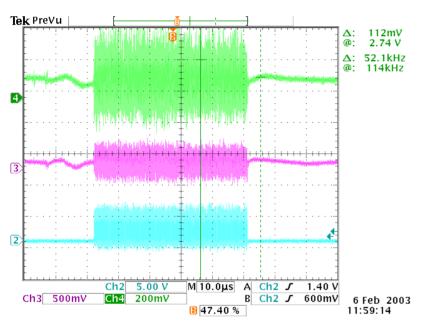


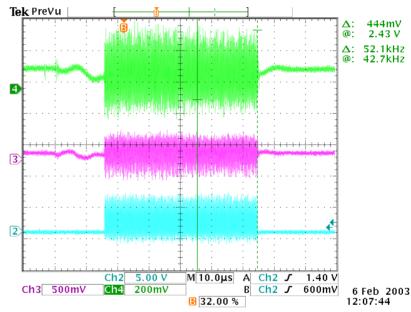
Standard. $C44 = C40 = 33 \mu F$

Tot noise= 1.02 counts

Diff noise=.63

- C44=0; $C40=33\mu F$
- Tot noise= 1.04
- Diff noise= 0.64





$$C44 = 100 \mu F$$
, $C40 = 33$

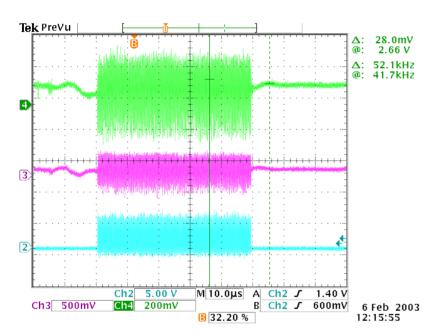
tot noise= 1.05

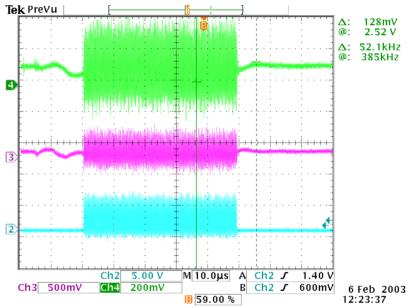
Diff noise= 0.64

$$C44=0, C40=0$$

tot noise= 1.05

Diff noise= 0.64



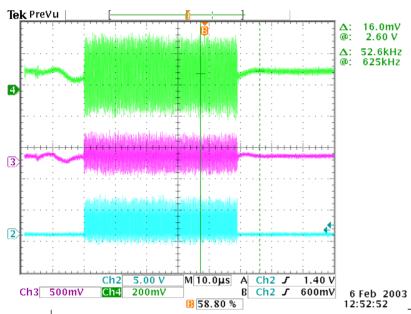


Tot noise= 1.06

Diff noise= 0.64

Tot noise= 1.08

Diff noise= 0.63



Back to standard (33 μ F for each:

Tot noise= 1.03

Diff noise= 0.63

